

• • , • • , • • , • • ,
• • , - ,
• • , , “ ” , .

The current work investigated the possibility for flow transfer of the Diels-Alder educt formation reactions between unsaturated oligoesters and furfuryl glycidyl ether. Interreacting reactions of carboxylic group of acid oligoesters with furfuryl glycidyl and furfuryl benzyl ether were also studied. All kinetics characteristic of these reactions were obtained. There polymers were obtained and their physic - mechanical properties determined.

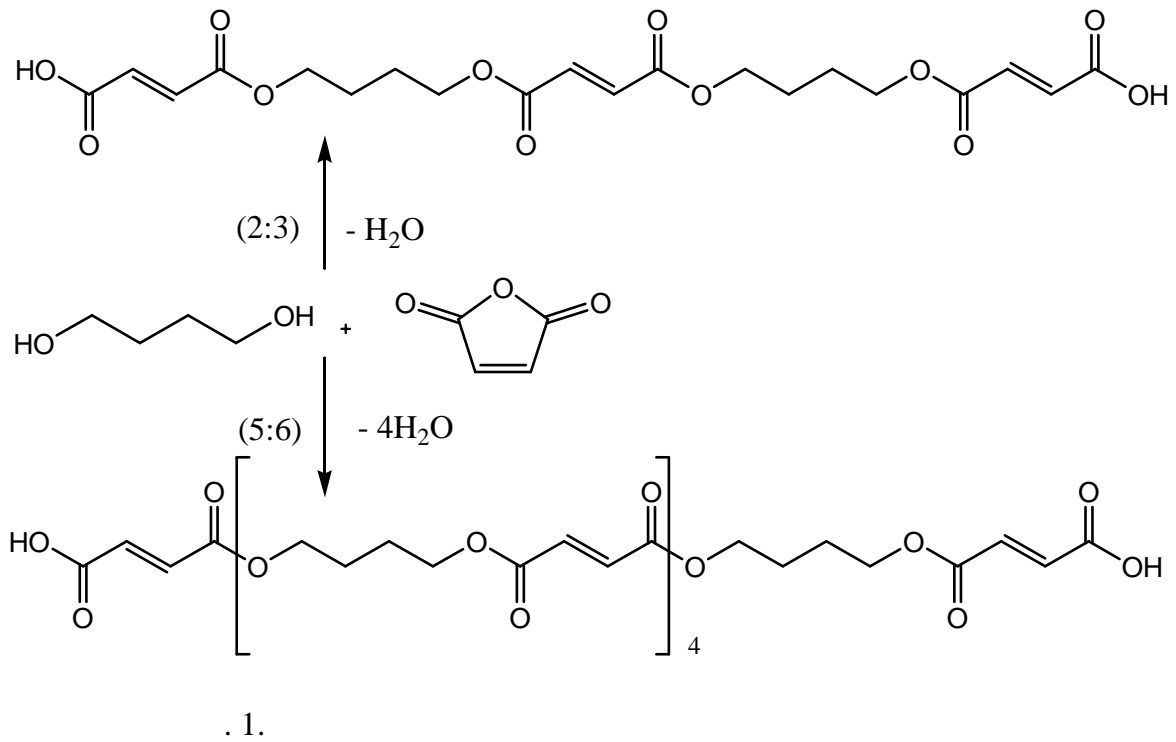
()

[1 – 4].

– ().

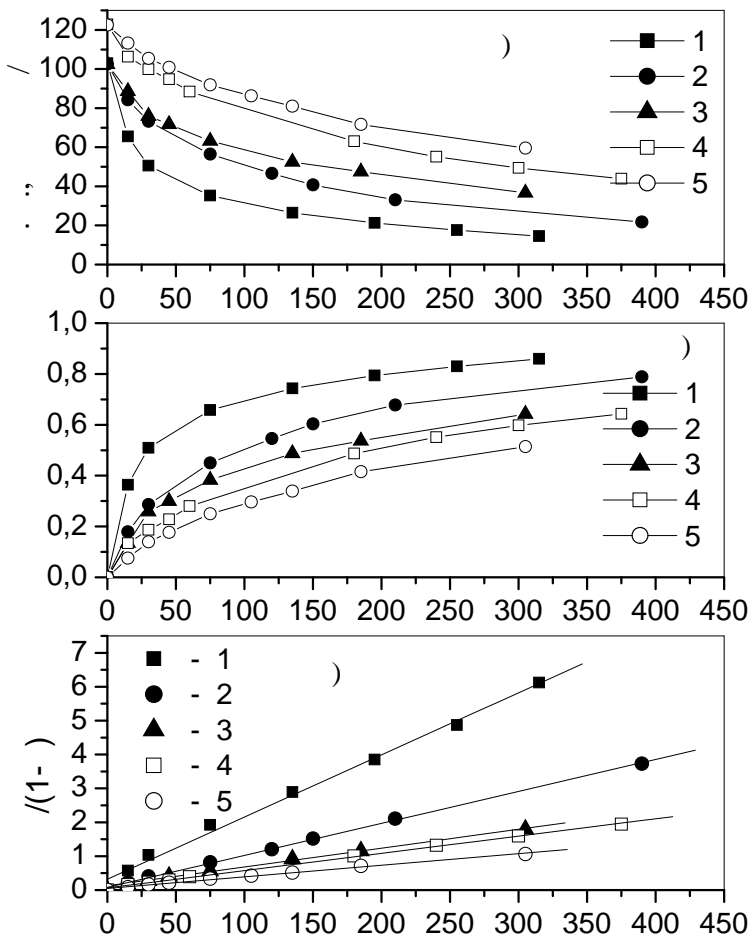
[5 – 8].

(),
 (2:3) (5:6).
 (. 1)
 (. .)
 (2:3), 243.96 / .,
 . . = 237.91 / . (5:6)
 . . = 108.66 / .,
 . . = 106.52 / .



[9],
 - 1,4810.
 27,32 %.
 (),
 (. .).
 . . = 266.38 J₂/100 ., 98,8 %
 (),
 . . = 0 / .,
 n²⁰_D = 1.4410

Q “ - - ” , 100 ,
 5 % .
 - 10 .



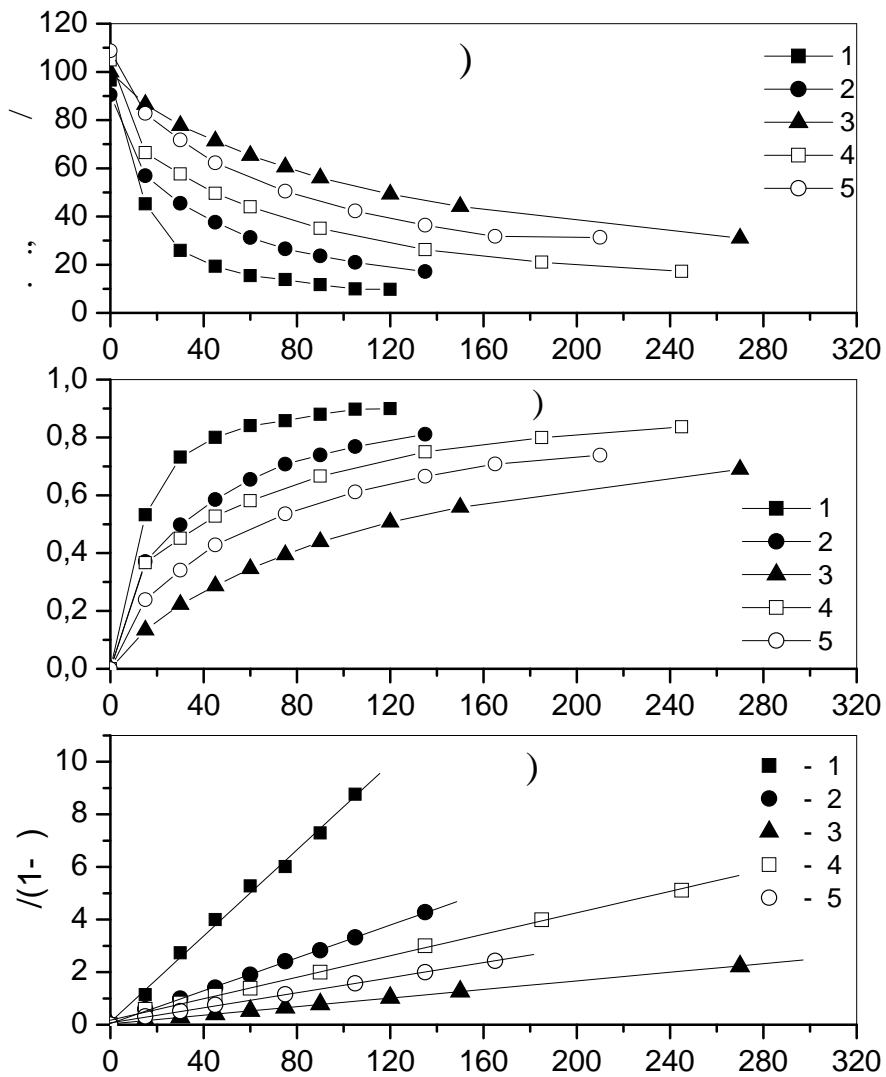
()
 () (2 : 3)

().
 $\text{Et}_3\text{PhCH}_2\text{N}\cdot\text{FeCl}_4$ (1 %).

.2. (), .2 .3.
 (),
 ()
 1, 2, 3 – (80, 60, 40)°
 ; 4, 5 – (80, 60)°

$$= -R \cdot \frac{T_1 \cdot T_2 \cdot \ln \frac{k_1}{k_2}}{T_2 - T_1},$$

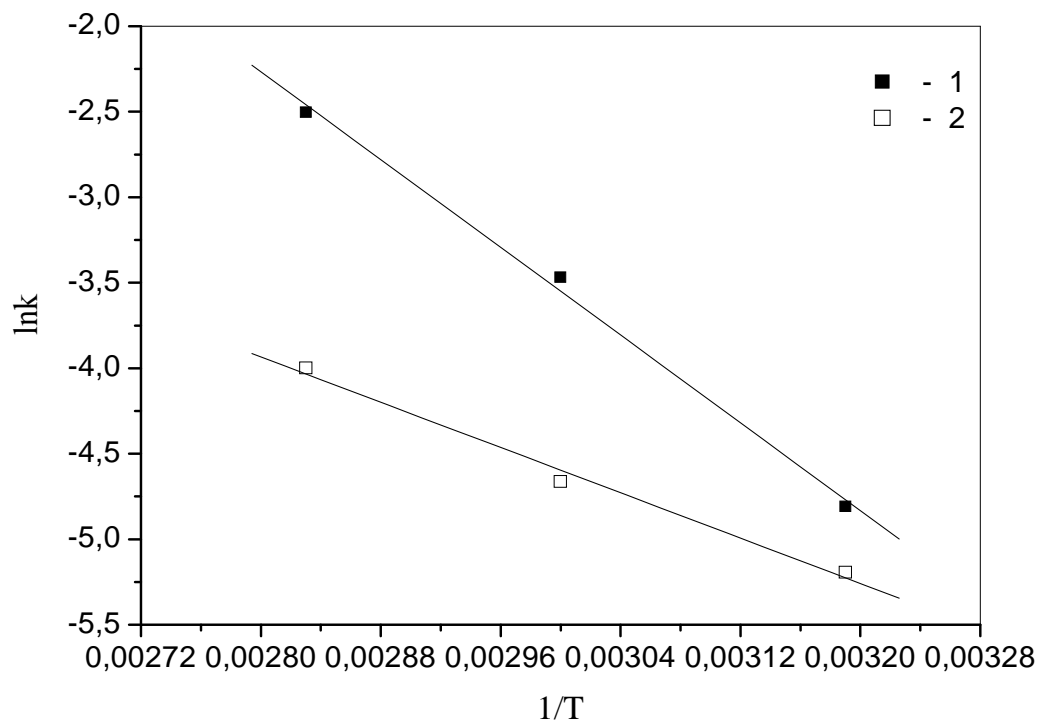
(8.31) ; R - ; k -



3. (), () ;
 1, 2, 3 - (80, 60, 40)° ;
 4, 5 - (80, 60)°

$$\ln k = f(1/T)$$

. 4.



. 4.

lnk 1/T

(1);

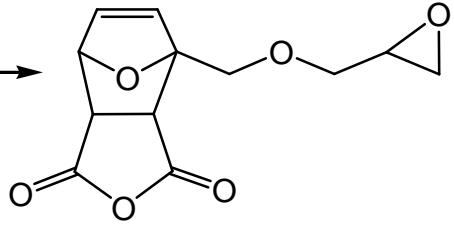
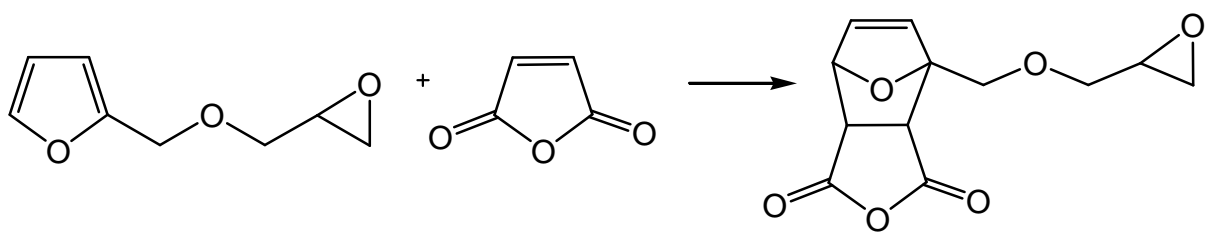
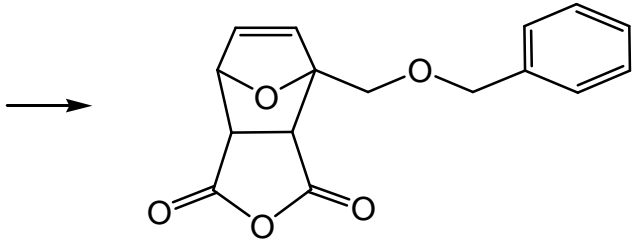
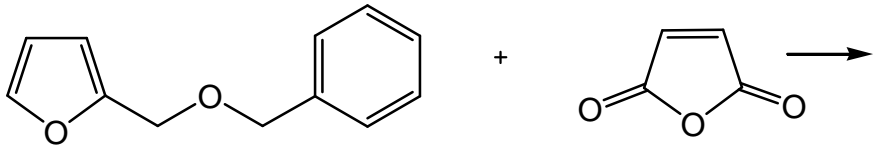
(2)

1.

1

	, °	k, . ⁻¹	, /
-	80	0,0819	20,64
	60	0.03121	
	40	0.00817	
-	80	0,02043	22,8
	60	0,01433	
-	80	0,01835	30,06
	60	0.00944	
	40	0.00555	
-	80	0,0051	41,07
	60	0,00342	

2.7 .



2.5

25 °

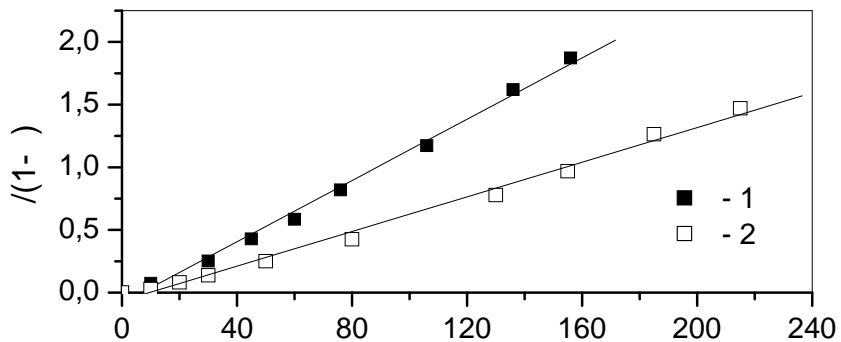
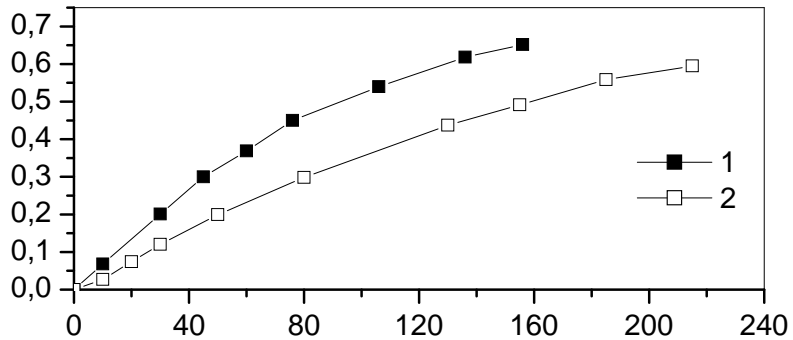
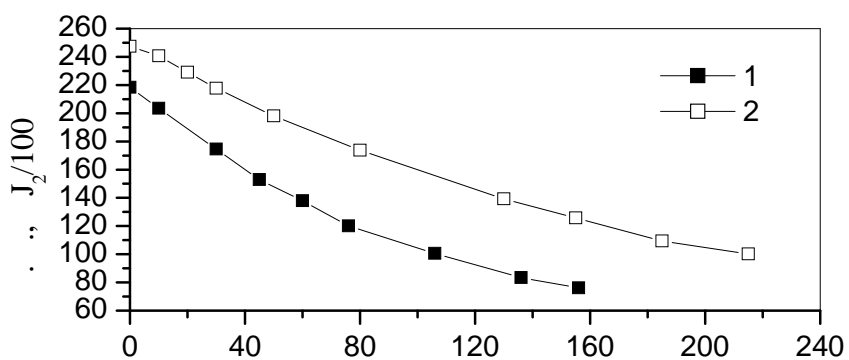
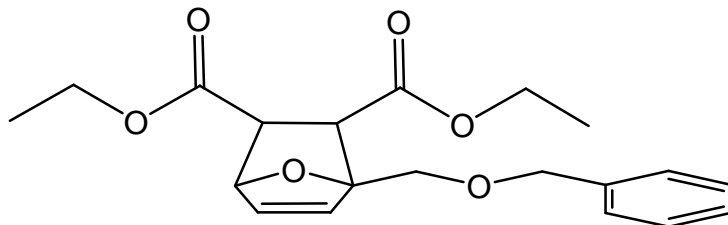
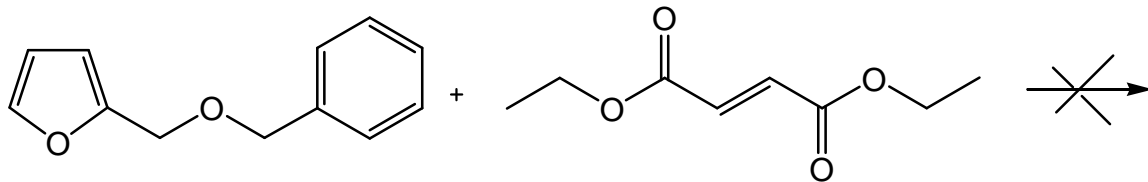
(.5)

(.2).

(80 - 150 °)

(AlCl₃,

Et₃PhCH₂N·FeCl₄ (1 % .)),



.5.

(),

(),

()

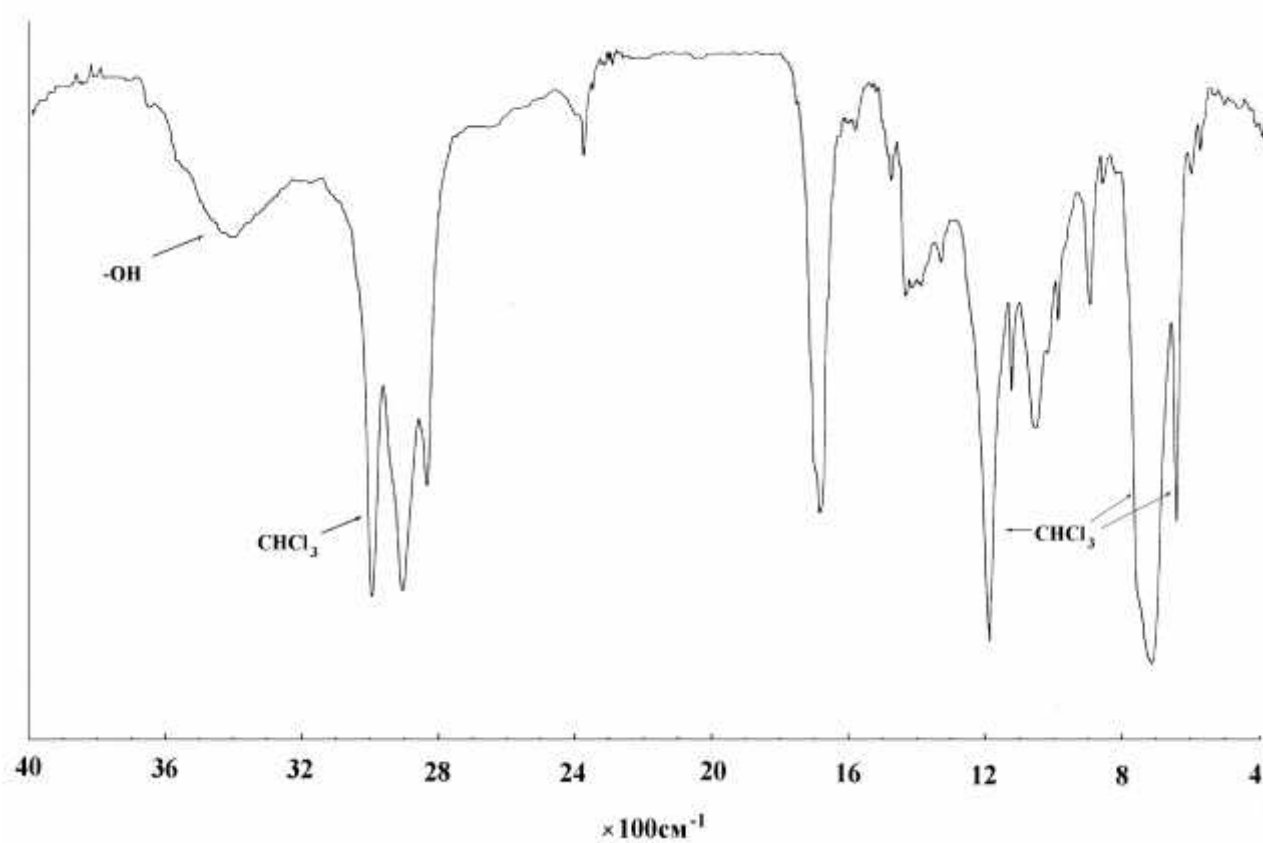
1 -

; 2 -

,	, \cdot^{-1}
-	0,01223
-	0,00691

- 3500 ÷ 3400 \cdot^{-1} (. 6).

. 3.

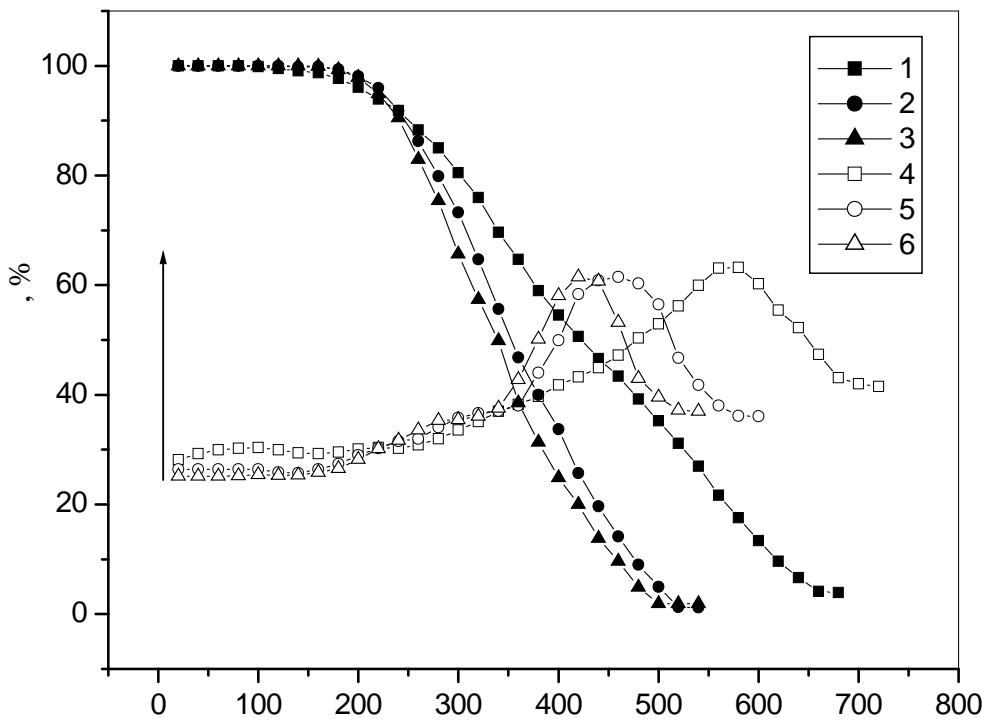


. 6.

(2 : 3)

. 7.

	,		
	— (2 : 3)	— (5 : 6)	— (2 : 3)
150 ° , . 3	1,5	1,5	2,5
, . .	0,35	0,18	0,25
,	50	50	50
,	1	1	1
,	1	1	1
, %	86	75	68



. 7.

1,4 – ; 2,5 – (2 : 3);
 3,6 – (2:3);

, 220 ° ,

t = 450 ° .

